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*abstract
H11*

SEQUENCE LISTING

- <110> Maliga, Pal
Kuroda, Hiroshi
Khan, Muhammad Sarwar
Rutgers, The state University of New Jersey
- <120> Translation Control Elements for High-Level Protein
Expression in the Plastids of Higher Plants and
Methods of Use Thereof

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<140> 09/762,105

<141> 2001-04-23

<150> PCT/US99/17806

<151> 1999-08-03

<150> 60/138,764

<151> 1999-06-11

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<220>
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 auguaccac aaacagagac uaaagcaagu guuggauuca aagcuggugu 50

<210> 115
 <211> 48
 <212> RNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic Sequence
 <400> 115
 augaguccuc agacagaaac aaaagccuca guaggauuca aagcuagc 48

<210> 116
 <211> 58
 <212> RNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic Sequence
 <400> 116
 guauuuccau ggguuugccu ugguaucgug uucauaccgu uguauugaau gaucgccg 58

<210> 117
 <211> 51
 <212> RNA
 <213> Artificial Sequence
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 <223> Synthetic Sequence
 <400> 117
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<210> 118
<211> 50
<212> RNA
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<220>
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<400> 118
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<210> 119
<211> 30
<212> RNA
<213> Artificial Sequence

<220>
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<400> 119
auggcaagca ugacuggugg acaggcuagc      30

<210> 120
<211> 30
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 120
auggcaauca cuagcccugc cuuggcuagc      30

<210> 121
<211> 34
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 121
acauaugcgu agcauugaac aagauggauu gcau      34

<210> 122
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
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<400> 122
Met Ser Pro Gln Thr Glu Thr Lys Ala Ser Val Gly Phe Lys
1          5          10

<210> 123
<211> 42

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<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 123
auggcaagca ugacuggugg acaggcuagc auugaacaag au

42

<210> 124
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
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<400> 124
Met Ala Ser Met Thr Gly Gly Gln Ala Ser Ile Glu Gln Asp
1 5 10

<210> 125
<211> 42
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic Sequence

<400> 125
auggcaauca cuagcccugc cuaggcuagc auugaacaag au

42

<210> 126
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<213> Artificial Sequence

<220>
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<400> 126
Met Ala Ile Thr Ser Pro Ala Leu Ala Ser Ile Glu Gln Asp
1 5 10

<210> 127
<211> 42
<212> RNA
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<400> 127
auggcuagca uugaacaaga uggauugcac gcagguucuc cg

42

<210> 128
<211> 14
<212> PRT
<213> Artificial Sequence

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<400> 128

Met	Ala	Ser	Ile	Glu	Gln	Asp	Gly	Leu	His	Ala	Gly	Ser	Pro
1				5					10				

<210> 129

<211> 188

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<400> 129

Met	Ala	Pro	Gln	Thr	Glu	Ser	Pro	Glu	Arg	Arg	Pro	Ala	Asp	Ile	Arg
1				5					10					15	
Arg	Ala	Thr	Glu	Ala	Asp	Met	Pro	Ala	Val	Cys	Thr	Ile	Val	Asn	His
			20					25					30		
Tyr	Ile	Glu	Thr	Ser	Thr	Val	Asn	Phe	Arg	Thr	Glu	Pro	Gln	Glu	Pro
		35					40					45			
Gln	Glu	Trp	Thr	Asp	Asp	Leu	Val	Arg	Leu	Arg	Glu	Arg	Tyr	Pro	Trp
	50				55						60				
Leu	Val	Ala	Glu	Val	Asp	Gly	Glu	Val	Ala	Gly	Ile	Ala	Tyr	Ala	Gly
65					70				75					80	
Pro	Trp	Lys	Ala	Arg	Asn	Ala	Tyr	Asp	Trp	Thr	Ala	Glu	Ser	Thr	Val
			85					90					95		
Tyr	Val	Ser	Pro	Arg	His	Gln	Arg	Thr	Gly	Leu	Gly	Ser	Thr	Leu	Tyr
			100					105					110		
Thr	His	Leu	Leu	Lys	Ser	Leu	Glu	Ala	Gln	Gly	Phe	Lys	Ser	Val	Val
		115					120					125			
Ala	Val	Ile	Gly	Leu	Pro	Asn	Asp	Pro	Ser	Val	Arg	Met	His	Glu	Ala
	130					135					140				
Leu	Gly	Tyr	Ala	Pro	Arg	Gly	Met	Leu	Arg	Ala	Ala	Gly	Phe	Lys	His
145					150				155					160	
Gly	Asn	Trp	His	Asp	Val	Gly	Phe	Trp	Gln	Leu	Asp	Phe	Ser	Leu	Pro
			165					170						175	
Val	Pro	Pro	Arg	Pro	Val	Leu	Pro	Val	Thr	Glu	Ile				
			180					185							

<210> 130

<211> 184

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<400> 130

Met	Ala	Ser	Pro	Glu	Arg	Arg	Pro	Ala	Asp	Ile	Arg	Arg	Ala	Thr	Glu
1				5					10					15	
Ala	Asp	Met	Pro	Ala	Val	Cys	Thr	Ile	Val	Asn	His	Tyr	Ile	Glu	Thr
			20					25					30		
Ser	Thr	Val	Asn	Phe	Arg	Thr	Glu	Pro	Gln	Glu	Pro	Gln	Glu	Trp	Thr
		35					40					45			
Asp	Asp	Leu	Val	Arg	Leu	Arg	Glu	Arg	Tyr	Pro	Trp	Leu	Val	Ala	Glu
	50				55						60				
Val	Asp	Gly	Glu	Val	Ala	Gly	Ile	Ala	Tyr	Ala	Gly	Pro	Trp	Lys	Ala
65					70				75					80	
Arg	Asn	Ala	Tyr	Asp	Trp	Thr	Ala	Glu	Ser	Thr	Val	Tyr	Val	Ser	Pro

				85					90					95			
Arg	His	Gln	Arg	Thr	Gly	Leu	Gly	Ser	Thr	Leu	Tyr	Thr	His	Leu	Leu		
			100					105					110				
Lys	Ser	Leu	Glu	Ala	Gln	Gly	Phe	Lys	Ser	Val	Val	Ala	Val	Ile	Gly		
		115					120					125					
Leu	Pro	Asn	Asp	Pro	Ser	Val	Arg	Met	His	Glu	Ala	Leu	Gly	Tyr	Ala		
	130					135					140						
Pro	Arg	Gly	Met	Leu	Arg	Ala	Ala	Gly	Phe	Lys	His	Gly	Asn	Trp	His		
145					150					155					160		
Asp	Val	Gly	Phe	Trp	Gln	Leu	Asp	Phe	Ser	Leu	Pro	Val	Pro	Pro	Arg		
			165					170						175			
Pro	Val	Leu	Pro	Val	Thr	Glu	Ile										
			180														

<210> 131
 <211> 65
 <212> DNA
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<220>
 <223> Synthetic sequence

<400> 131
 ggtagtgggc aaagaacttg ttgaaggaaa attggagcta gtagaaggtc ttaaagtcgc
 catgg

60
 65

<210> 132
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Sequence

<400> 132
 Met Arg Ile Asn Pro Thr Thr Ser Gly Ser Gly Val Ser Thr
 1 5 10